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Page 12

01-00000000000000000000000000000000
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 SOFTWARE: PATROL-6 pol.pas #1.00 Ver
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 CLASSIFIED: 4/5
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: SE 9409486 4
 FILING DATE: 01-MAR-1993
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: SE 9409722 7
 FILING DATE: 04-MAR-1993
 ALTERNATIVE INFORMATION:
 NAME: STEPHEN P. LEE, RICHARD J.
 REGISTRANT NUMBER: 455372
 REFERENCE/AGENT NUMBER: 1109226-B50
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (412)419-8783
 TELEFAX: (412)354-8114
 INFORMATION FILE ID N : 9;
 SEQUENCE CHARACTERISTICS:
 LENGTH: 600 audio words
 TYPE: audio word
 FORMAT: 1; mono
 MULTIPLE TYPES: PROTECT

4

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  ratio: 1.000
  gaps: 0
Percent Similarity: 100.000
Percent Identity: 100.000
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Alien seq 1/1 to: US-08-068-945A-1 from: 1 to: 11531

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- STINKAL INFORMATION:
  APPLICANT: Bursell, Ginnar
  APPLICANT: Carlsson, Peter
  APPLICANT: Ekberg, Sven
  APPLICANT: Hansson, Lennart
  APPLICANT: Lidberg, Ulf
  APPLICANT: Nilsson, Olof
  APPLICANT: Forsell, Jan
  TITLE OF INVENTION: Genomic DNA Sequences
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TI 1155 INVENTION: ENVOYING ROMAN RSL/CEL
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
    ADDRESS: White & Case
    STREET: 1155 Avenue of the Americas
    CITY: New York
    STATE: New York
    COUNTRY: United States
    ID: 10030-2787
COMPUTER NAME: RCPH.
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS-MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
    APPLICATION NUMBER: US/08/442,806
    FILING DATE:
CLASSIFICATION: 435
FF OR APPLICATION DATA:
    APPLICATION NUMBER: US 08/068,945
    FILING DATE: 27-MAY-1993
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
    APPLICATION NUMBER: SE 9201809 2
    FILING DATE: 21 JUN 1992
FF OR APPLICATION DATA:
    APPLICATION NUMBER: SE 9201826-6
    FILING DATE: 22 JUN 1992
FF OR APPLICATION DATA:
    APPLICATION NUMBER: SE 9202088 2
    FILING DATE: 03-JUL-1992
FF OR APPLICATION DATA:
    APPLICATION NUMBER: SE 9300902-5
    FILING DATE: 19-MAR-1993
A1 CORNEY/AGENT INFORMATION:
    NAME: Sterner, Richard J.
    REGISTRATION NUMBER: 35,372
    REFERENCE/LEVEL NUMBER: 1103426-052
FF COMMUNICATION INFORMATION:
    TELEPHONE: (212)819-8783
    TELEFAX: (212)354-8113
INFORMATION FOR SEQ ID NO: 1:
    SEQUENCE CHARACTERISTICS:
        LENGTH: 11531 base pairs
        TYPE: nucleic acid
        STRANDEDNESS: double
        TOPOLOGY: linear
    MOLECULE TYPE: DNA (genomic)
    ORIGINAL SOURCE:
        ORGANISM: Homo sapiens
        TISSUE TYPE: Mammary gland
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FF FEATURE:
    NAME/KEY: TATA.signal
    LOCATION: 1611..1617
FF FEATURE:
    NAME/KEY: exon
    LOCATION: 1641..1727
FF FEATURE:

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1 STREET: 1155 Avenue of the Americas
2 CITY: New York
3 STATE: New York
4 COUNTRY: United States
5 ZIP: 10036-2787
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7 COUNTRY REPEAT FORM:
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9 MEDIUM TYPE: floppy disk
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11 SOFTWARE: PC-DOS/MS-DOS
12 SERIAL: Patent in File-#100, Version #1.25
13
14 CURRENT APPLICATION DATA:
15 APPLICATION NUMBER: 002-0111-000
16 FILING DATE:
17 CLASSIFICATION: 435
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20 APPLICATION NUMBER: SE 9201909-2
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25 FILING DATE: 12-JUN-1992
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28 APPLICATION NUMBER: SE 9202998-2
29 FILING DATE: 03-JUN-1992
30
31 PRIOR APPLICATION DATA:
32 APPLICATION NUMBER: SE 9200992-5
33 FILING DATE: 19-MAY-1994
34
35 ALL INFORMATION IN ENGLISH:
36 NAME: STEPHEN RICHARD J.
37 REGISTRATION NUMBER: 457372
38 REFERENCE/DOCKET NUMBER: 1100029-000
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40 TELEPHONE: (212) 819-8784
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42 INFORMATION FOR SEQ ID NO: 21
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45 TYPE: nucleic acid
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48 MEDIUM TYPE: DNA (genomic)
49 ANTI-SENSE: YES
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51 US-09-418-176-2
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1. Introduction

JOHN, L. Patent: US 5827684-A 8/27/00; T-1998;

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG). The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG).

1. *Introduction*

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KEYWORDS

W51N15M

APPEAL FROM THE DISTRICT COURT OF THE DISTRICT OF COLUMBIA

[illegible]

Figure 1. The effect of the concentration of the H_2O_2 solution on the amount of the released H_2O_2 from the H_2O_2 -loaded hydrogel. The amount of the released H_2O_2 was measured by the amount of the released H_2O_2 from the H_2O_2 -loaded hydrogel. The amount of the released H_2O_2 was measured by the amount of the released H_2O_2 from the H_2O_2 -loaded hydrogel.

LINEAR ALGEBRA

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Introduction

7. $\mathcal{H}^1(\mathbb{R}^n) \subset \mathcal{H}^1(\mathbb{R}^n)$ and $\mathcal{H}^1(\mathbb{R}^n) \subset \mathcal{H}^1(\mathbb{R}^n)$.



1. The first step is to identify the key components of the system. This involves understanding the hardware, software, and data involved. For example, in a web application, this might include the server, database, and client-side code.

[illegible][illegible]

1. *Introduction*
 2. *Methodology*
 3. *Results*
 4. *Discussion*
 5. *Conclusion*
 6. *Acknowledgements*
 7. *References*
 8. *Appendix*
 9. *Notes*
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Figure 1 illustrates the experimental setup. A subject is seated at a table, looking at a video screen. A camera is positioned above the screen. The screen displays a target (a small circle) and a starting point (a larger circle). The subject's hand is positioned at the starting point. The distance between the starting point and the target is labeled 'Distance'. The subject's hand is labeled 'Hand'.

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG). The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG).

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Statistical analysis

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1. **Introduction**
 2. **Background**
 3. **Methods**
 4. **Results**
 5. **Conclusion**
 6. **References**
 7. **Appendix**
 8. **Figure 1**
 9. **Figure 2**
 10. **Figure 3**
 11. **Figure 4**
 12. **Figure 5**
 13. **Figure 6**
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Figure 1: Western blot analysis of p38 phosphorylation. The figure consists of two panels, A and B. Panel A shows a Western blot for p38 in whole cell lysates from untreated (untreated) and treated (LPS) cells, with and without the inhibitor SB203580. Panel B shows a Western blot for p38 in whole cell lysates from untreated (untreated) and treated (LPS) cells, with and without the inhibitor SB203580. Both panels show bands for p38 and p38 phosphorylated (p38-P). Molecular weight markers are indicated on the left.

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Figure 6. The effect of the concentration of the polymer solution on the morphology of the films. The film was prepared by casting from a chloroform solution onto glass slides at room temperature. The thickness of the film was approximately 0.8 μm. The concentration of the polymer solution was 0.1 g/dl (A), 0.2 g/dl (B), 0.3 g/dl (C), 0.4 g/dl (D), 0.5 g/dl (E), 0.7 g/dl (F), 0.9 g/dl (G), 1.1 g/dl (H), 1.3 g/dl (I), 1.5 g/dl (J).

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George M. Bickel	1938	1940	1949	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	235
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PROBABLE IN THE TUBERIN CATABOLISM. THE CATABOLISM OF TUBERIN IS ASSOCIATED WITH A SPECIFIC TUBERININ, WHICH IS FORMED BY THE ACTION OF THE TUBERININASE. THE TUBERININASE IS AN ALTERNATIVE ENZYME TO THE TUBERININASE. THE TUBERININASE IS AN ALTERNATIVE ENZYME TO THE TUBERININASE.

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is as follows: 1. The station is not covered. 2. The station is not covered.
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Query March 18.03; Score 770.5; DR 1; Length 557;
 Most read similarity 100%; read No. 140-29;
 Matches 185; Conservative 99; Mismatches 202; Indels 79; Gaps 25.

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Author	Year	Country	Sample Size	Age Range	Gender	Study Type
Wang, J.	2008	China	1,000	18-30	Male	Quantitative
Li, X.	2009	China	500	18-30	Female	Qualitative
Chen, Y.	2010	China	1,200	18-30	Male	Quantitative
Zhang, H.	2011	China	800	18-30	Female	Qualitative
Wu, L.	2012	China	1,500	18-30	Male	Quantitative
Yang, M.	2013	China	900	18-30	Female	Qualitative
Xu, K.	2014	China	1,100	18-30	Male	Quantitative
Guo, Q.	2015	China	700	18-30	Female	Qualitative
Huang, Z.	2016	China	1,300	18-30	Male	Quantitative
Liu, N.	2017	China	600	18-30	Female	Qualitative
Wang, P.	2018	China	1,400	18-30	Male	Quantitative
Chen, W.	2019	China	850	18-30	Female	Qualitative
Zhang, L.	2020	China	1,600	18-30	Male	Quantitative
Wu, Y.	2021	China	950	18-30	Female	Qualitative
Yang, X.	2022	China	1,700	18-30	Male	Quantitative
Xu, M.	2023	China	750	18-30	Female	Qualitative
Guo, H.	2024	China	1,800	18-30	Male	Quantitative
Huang, Y.	2025	China	800	18-30	Female	Qualitative

mutations 107; conservative 74; Mismatches 224; Indel's 94; Gaps 21

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1975. *Journal of the Royal Microscopical Society*, 95, 1-10.

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$\Delta \text{HMA}_{\text{S}} = \text{HMA} - (\text{VdF} + \text{HFA} + \text{HF}) = 0.79$

ALYVGEAEFE . ALLAGVTEI . JGJNLEVA . AFAALLVEHEWIVT . 289

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#SEQUENCE-POSITION AT 001 1997 #EX-CHANGE IN NOV 1997

Abil - 0, d'Hemile, Y.; Taleda, V.; Touant, J.P.; Chalonnet, A.

11. Till, A. Acetylcholinesterase and butyrylcholinesterase expression in adult

Accession: S48724

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,ModelEvaluationType: mRMA

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the effect of the 1997–1998 El Niño on the 1998–1999 El Niño in the Amazon basin.

Model	Model	Model	Model
Model 1	Model 2	Model 3	Model 4
Model 5	Model 6	Model 7	Model 8
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Model 13	Model 14	Model 15	Model 16
Model 17	Model 18	Model 19	Model 20
Model 21	Model 22	Model 23	Model 24
Model 25	Model 26	Model 27	Model 28
Model 29	Model 30	Model 31	Model 32
Model 33	Model 34	Model 35	Model 36
Model 37	Model 38	Model 39	Model 40
Model 41	Model 42	Model 43	Model 44
Model 45	Model 46	Model 47	Model 48
Model 49	Model 50	Model 51	Model 52
Model 53	Model 54	Model 55	Model 56
Model 57	Model 58	Model 59	Model 60
Model 61	Model 62	Model 63	Model 64
Model 65	Model 66	Model 67	Model 68
Model 69	Model 70	Model 71	Model 72
Model 73	Model 74	Model 75	Model 76
Model 77	Model 78	Model 79	Model 80
Model 81	Model 82	Model 83	Model 84
Model 85	Model 86	Model 87	Model 88
Model 89	Model 90	Model 91	Model 92
Model 93	Model 94	Model 95	Model 96
Model 97	Model 98	Model 99	Model 100

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Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in YEA medium for 24 h at 28 °C. The cell concentration was adjusted to 1.0 × 10⁸ cells/ml. The cells were then mixed with the plant tissue and the transformation efficiency was determined. The results are shown as the mean ± SD of three independent experiments. The asterisk (*) indicates a significant difference (p < 0.05) between the control and the treated groups.

1. The first step is to identify the key components of the system. This involves understanding the hardware, software, and data involved. For example, in a web application, this might include the server, the database, and the user interface.

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A **N** **I** **M** **E** **R** **E** **N** **C** **E** **S**

Case	Age	Sex	Site	Pathologic	Survival	Ref.
1	60	M	IVC	Adenocarcinoma	10 mo	[10]
2	65	M	IVC	Adenocarcinoma	10 mo	[11]
3	65	M	IVC	Adenocarcinoma	10 mo	[12]
4	65	M	IVC	Adenocarcinoma	10 mo	[13]
5	65	M	IVC	Adenocarcinoma	10 mo	[14]
6	65	M	IVC	Adenocarcinoma	10 mo	[15]
7	65	M	IVC	Adenocarcinoma	10 mo	[16]
8	65	M	IVC	Adenocarcinoma	10 mo	[17]
9	65	M	IVC	Adenocarcinoma	10 mo	[18]
10	65	M	IVC	Adenocarcinoma	10 mo	[19]
11	65	M	IVC	Adenocarcinoma	10 mo	[20]
12	65	M	IVC	Adenocarcinoma	10 mo	[21]
13	65	M	IVC	Adenocarcinoma	10 mo	[22]
14	65	M	IVC	Adenocarcinoma	10 mo	[23]
15	65	M	IVC	Adenocarcinoma	10 mo	[24]
16	65	M	IVC	Adenocarcinoma	10 mo	[25]
17	65	M	IVC	Adenocarcinoma	10 mo	[26]
18	65	M	IVC	Adenocarcinoma	10 mo	[27]
19	65	M	IVC	Adenocarcinoma	10 mo	[28]
20	65	M	IVC	Adenocarcinoma	10 mo	[29]
21	65	M	IVC	Adenocarcinoma	10 mo	[30]
22	65	M	IVC	Adenocarcinoma	10 mo	[31]
23	65	M	IVC	Adenocarcinoma	10 mo	[32]
24	65	M	IVC	Adenocarcinoma	10 mo	[33]
25	65	M	IVC	Adenocarcinoma	10 mo	[34]
26	65	M	IVC	Adenocarcinoma	10 mo	[35]
27	65	M	IVC	Adenocarcinoma	10 mo	[36]
28	65	M	IVC	Adenocarcinoma	10 mo	[37]
29	65	M	IVC	Adenocarcinoma	10 mo	[38]
30	65	M	IVC	Adenocarcinoma	10 mo	[39]
31	65	M	IVC	Adenocarcinoma	10 mo	[40]
32	65	M	IVC	Adenocarcinoma	10 mo	[41]
33	65	M	IVC	Adenocarcinoma	10 mo	[42]
34	65	M	IVC	Adenocarcinoma	10 mo	[43]
35	65	M	IVC	Adenocarcinoma	10 mo	[44]
36	65	M	IVC	Adenocarcinoma	10 mo	[45]
37	65	M	IVC	Adenocarcinoma	10 mo	[46]
38	65	M	IVC	Adenocarcinoma	10 mo	[47]
39	65	M	IVC	Adenocarcinoma	10 mo	[48]
40	65	M	IVC	Adenocarcinoma	10 mo	[49]
41	65	M	IVC	Adenocarcinoma	10 mo	[50]
42	65	M	IVC	Adenocarcinoma	10 mo	[51]
43	65	M	IVC	Adenocarcinoma	10 mo	[52]
44	65	M	IVC	Adenocarcinoma	10 mo	[53]
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52	65	M	IVC	Adenocarcinoma	10 mo	[61]
53	65	M	IVC	Adenocarcinoma	10 mo	[62]
54	65	M	IVC	Adenocarcinoma	10 mo	[63]
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56	65	M	IVC	Adenocarcinoma	10 mo	[65]
57	65	M	IVC	Adenocarcinoma	10 mo	[66]
58	65	M	IVC	Adenocarcinoma	10 mo	[67]
59	65	M	IVC	Adenocarcinoma	10 mo	[68]
60	65	M	IVC	Adenocarcinoma	10 mo	[69]
61	65	M	IVC	Adenocarcinoma	10 mo	[70]

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THE HISTORY OF THE UNITED STATES

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THE EFFECT OF MARYANFARIN ON THE AKA-100 VIA-VIS

THE UNIVERSITY OF CHICAGO

[illegible]

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The transformation efficiency was determined by the number of transformants per 10⁶ cells of *Agrobacterium* suspension. The data are the mean ± SD of three independent experiments.

[illegible][illegible]

A **B** **C** **D** **E** **F** **G** **H** **I** **J** **K** **L** **M** **N** **O** **P** **Q** **R** **S** **T** **U** **V** **W** **X** **Y** **Z**

[illegible][illegible]

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1. $\frac{1}{2}$ 2. $\frac{1}{3}$ 3. $\frac{1}{4}$ 4. $\frac{1}{5}$ 5. $\frac{1}{6}$ 6. $\frac{1}{7}$ 7. $\frac{1}{8}$ 8. $\frac{1}{9}$ 9. $\frac{1}{10}$ 10. $\frac{1}{11}$ 11. $\frac{1}{12}$ 12. $\frac{1}{13}$ 13. $\frac{1}{14}$ 14. $\frac{1}{15}$ 15. $\frac{1}{16}$ 16. $\frac{1}{17}$ 17. $\frac{1}{18}$ 18. $\frac{1}{19}$ 19. $\frac{1}{20}$ 20. $\frac{1}{21}$ 21. $\frac{1}{22}$ 22. $\frac{1}{23}$ 23. $\frac{1}{24}$ 24. $\frac{1}{25}$ 25. $\frac{1}{26}$ 26. $\frac{1}{27}$ 27. $\frac{1}{28}$ 28. $\frac{1}{29}$ 29. $\frac{1}{30}$ 30. $\frac{1}{31}$ 31. $\frac{1}{32}$ 32. $\frac{1}{33}$ 33. $\frac{1}{34}$ 34. $\frac{1}{35}$ 35. $\frac{1}{36}$ 36. $\frac{1}{37}$ 37. $\frac{1}{38}$ 38. $\frac{1}{39}$ 39. $\frac{1}{40}$ 40. $\frac{1}{41}$ 41. $\frac{1}{42}$ 42. $\frac{1}{43}$ 43. $\frac{1}{44}$ 44. $\frac{1}{45}$ 45. $\frac{1}{46}$ 46. $\frac{1}{47}$ 47. $\frac{1}{48}$ 48. $\frac{1}{49}$ 49. $\frac{1}{50}$ 50. $\frac{1}{51}$ 51. $\frac{1}{52}$ 52. $\frac{1}{53}$ 53. $\frac{1}{54}$ 54. $\frac{1}{55}$ 55. $\frac{1}{56}$ 56. $\frac{1}{57}$ 57. $\frac{1}{58}$ 58. $\frac{1}{59}$ 59. $\frac{1}{60}$ 60. $\frac{1}{61}$ 61. $\frac{1}{62}$ 62. $\frac{1}{63}$ 63. $\frac{1}{64}$ 64. $\frac{1}{65}$ 65. $\frac{1}{66}$ 66. $\frac{1}{67}$ 67. $\frac{1}{68}$ 68. $\frac{1}{69}$ 69. $\frac{1}{70}$ 70. $\frac{1}{71}$ 71. $\frac{1}{72}$ 72. $\frac{1}{73}$ 73. $\frac{1}{74}$ 74. $\frac{1}{75}$ 75. $\frac{1}{76}$ 76. $\frac{1}{77}$ 77. $\frac{1}{78}$ 78. $\frac{1}{79}$ 79. $\frac{1}{80}$ 80. $\frac{1}{81}$ 81. $\frac{1}{82}$ 82. $\frac{1}{83}$ 83. $\frac{1}{84}$ 84. $\frac{1}{85}$ 85. $\frac{1}{86}$ 86. $\frac{1}{87}$ 87. $\frac{1}{88}$ 88. $\frac{1}{89}$ 89. $\frac{1}{90}$ 90. $\frac{1}{91}$ 91. $\frac{1}{92}$ 92. $\frac{1}{93}$ 93. $\frac{1}{94}$ 94. $\frac{1}{95}$ 95. $\frac{1}{96}$ 96. $\frac{1}{97}$ 97. $\frac{1}{98}$ 98. $\frac{1}{99}$ 99. $\frac{1}{100}$ 100. $\frac{1}{101}$ 101. $\frac{1}{102}$ 102. $\frac{1}{103}$ 103. $\frac{1}{104}$ 104. $\frac{1}{105}$ 105. $\frac{1}{106}$ 106. $\frac{1}{107}$ 107. $\frac{1}{108}$ 108. $\frac{1}{109}$ 109. $\frac{1}{110}$ 110. $\frac{1}{111}$ 111. $\frac{1}{112}$ 112. $\frac{1}{113}$ 113. $\frac{1}{114}$ 114. $\frac{1}{115}$ 115. $\frac{1}{116}$ 116. $\frac{1}{117}$ 117. $\frac{1}{118}$ 118. $\frac{1}{119}$ 119. $\frac{1}{120}$ 120. $\frac{1}{121}$ 121. $\frac{1}{122}$ 122. $\frac{1}{123}$ 123. $\frac{1}{124}$ 124. $\frac{1}{125}$ 125. $\frac{1}{126}$ 126. $\frac{1}{127}$ 127. $\frac{1}{128}$ 128. $\frac{1}{129}$ 129. $\frac{1}{130}$ 130. $\frac{1}{131}$ 131. $\frac{1}{132}$ 132. $\frac{1}{133}$ 133. $\frac{1}{134}$ 134. $\frac{1}{135}$ 135. $\frac{1}{136}$ 136. $\frac{1}{137}$ 137. $\frac{1}{138}$ 138. $\frac{1}{139}$ 139. $\frac{1}{140}$ 140. $\frac{1}{141}$ 141. $\frac{1}{142}$ 142. $\frac{1}{143}$ 143. $\frac{1}{144}$ 144. $\frac{1}{145}$ 145. $\frac{1}{146}$ 146. $\frac{1}{147}$ 147. $\frac{1}{148}$ 148. $\frac{1}{149}$ 149. $\frac{1}{150}$ 150. $\frac{1}{151}$ 151. $\frac{1}{152}$ 152. $\frac{1}{153}$ 153. $\frac{1}{154}$ 154. $\frac{1}{155}$ 155. $\frac{1}{156}$ 156. $\frac{1}{157}$ 157. $\frac{1}{158}$ 158. $\frac{1}{159}$ 159. $\frac{1}{160}$ 160. $\frac{1}{161}$ 161. $\frac{1}{162}$ 162. $\frac{1}{163}$ 163. $\frac{1}{164}$ 164. $\frac{1}{165}$ 165. $\frac{1}{166}$ 166. $\frac{1}{167}$ 167. $\frac{1}{168}$ 168. $\frac{1}{169}$ 169. $\frac{1}{170}$ 170. $\frac{1}{171}$ 171. $\frac{1}{172}$ 172. $\frac{1}{173}$ 173. $\frac{1}{174}$ 174. $\frac{1}{175}$ 175. $\frac{1}{176}$ 176. $\frac{1}{177}$ 177. $\frac{1}{178}$ 178. $\frac{1}{179}$ 179. $\frac{1}{180}$ 180. $\frac{1}{181}$ 181. $\frac{1}{182}$ 182. $\frac{1}{183}$ 183. $\frac{1}{184}$ 184. $\frac{1}{185}$ 185. $\frac{1}{186}$ 186. $\frac{1}{187}$ 187. $\frac{1}{188}$ 188. $\frac{1}{189}$ 189. $\frac{1}{190}$ 190. $\frac{1}{191}$ 191. $\frac{1}{192}$ 192. $\frac{1}{193}$ 193. $\frac{1}{194}$ 194. $\frac{1}{195}$ 195. $\frac{1}{196}$ 196. $\frac{1}{197}$ 197. $\frac{1}{198}$ 198. $\frac{1}{199}$ 199. $\frac{1}{200}$ 200. $\frac{1}{201}$ 201. $\frac{1}{202}$ 202. $\frac{1}{203}$ 203. $\frac{1}{204}$ 204. $\frac{1}{205}$ 205. $\frac{1}{206}$ 206. $\frac{1}{207}$ 207. $\frac{1}{208}$ 208. $\frac{1}{209}$ 209. $\frac{1}{210}$ 210. $\frac{1}{211}$ 211. $\frac{1}{212}$ 212. $\frac{1}{213}$ 213. $\frac{1}{214}$ 214. $\frac{1}{215}$ 215. $\frac{1}{216}$ 216. $\frac{1}{217}$ 217. $\frac{1}{218}$ 218. $\frac{1}{219}$ 219. $\frac{1}{220}$ 220. $\frac{1}{221}$ 221. $\frac{1}{222}$ 222. $\frac{1}{223}$ 223. $\frac{1}{224}$ 224. $\frac{1}{225}$ 225. $\frac{1}{226}$ 226. $\frac{1}{227}$ 227. $\frac{1}{228}$ 228. $\frac{1}{229}$ 229. $\frac{1}{230}$ 230. $\frac{1}{231}$ 231. $\frac{1}{232}$ 232. $\frac{1}{233}$ 233. $\frac{1}{234}$ 234. $\frac{1}{235}$ 235. $\frac{1}{236}$ 236. $\frac{1}{237}$ 237. $\frac{1}{238}$ 238. $\frac{1}{239}$ 239. $\frac{1}{240}$ 240

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20.5% Score 799.51 Db 41 Length 828:
Host: NCBI Similarity 43.08% Prot. No. 70-50:
March 2, 2019. Coordinates: 77, 85, 100, 115, 130, 145, 160, 175, 190, 205, 220, 235, 250, 265, 280, 295, 310, 325, 340, 355, 370, 385, 400, 415, 430, 445, 460, 475, 490, 505, 520, 535, 550, 565, 580, 595, 610, 625, 640, 655, 670, 685, 700, 715, 730, 745, 760, 775, 790, 805, 820, 835, 850, 865, 880, 895, 910, 925, 940, 955, 970, 985, 1000, 1015, 1030, 1045, 1060, 1075, 1090, 1105, 1120, 1135, 1150, 1165, 1180, 1195, 1210, 1225, 1240, 1255, 1270, 1285, 1300, 1315, 1330, 1345, 1360, 1375, 1390, 1405, 1420, 1435, 1450, 1465, 1480, 1495, 1510, 1525, 1540, 1555, 1570, 1585, 1600, 1615, 1630, 1645, 1660, 1675, 1690, 1705, 1720, 1735, 1750, 1765, 1780, 1795, 1810, 1825, 1840, 1855, 1870, 1885, 1900, 1915, 1930, 1945, 1960, 1975, 1990, 2005, 2020, 2035, 2050, 2065, 2080, 2095, 2110, 2125, 2140, 2155, 2170, 2185, 2200, 2215, 2230, 2245, 2260, 2275, 2290, 2305, 2320, 2335, 2350, 2365, 2380, 2395, 2410, 2425, 2440, 2455, 2470, 2485, 2500, 2515, 2530, 2545, 2560, 2575, 2590, 2605, 2620, 2635, 2650, 2665, 2680, 2695, 2710, 2725, 2740, 2755, 2770, 2785, 2800, 2815, 2830, 2845, 2860, 2875, 2890, 2905, 2920, 2935, 2950, 2965, 2980, 2995, 3010, 3025, 3040, 3055, 3070, 3085, 3100, 3115, 3130, 3145, 3160, 3175, 3190, 3205, 3220, 3235, 3250, 3265, 3280, 3295, 3310, 3325, 3340, 3355, 3370, 3385, 3400, 3415, 3430, 3445, 3460, 3475, 3490, 3505, 3520, 3535, 3550, 3565, 3580, 3595, 3610, 3625, 3640, 3655, 3670, 3685, 3700, 3715, 3730, 3745, 3760, 3775, 3790, 3805, 3820, 3835, 3850, 3865, 3880, 3895, 3910, 3925, 3940, 3955, 3970, 3985, 4000, 4015, 4030, 4045, 4060, 4075, 4090, 4105, 4120, 4135, 4150, 4165, 4180, 4195, 4210, 4225, 4240, 4255, 4270, 4285, 4300, 4315, 4330, 4345, 4360, 4375, 4390, 4405, 4420, 4435, 4450, 4465, 4480, 4495, 4510, 4525, 4540, 4555, 4570, 4585, 4600, 4615, 4630, 4645, 4660, 4675, 4690, 4705, 4720, 4735, 4750, 4765, 4780, 4795, 4810, 4825, 4840, 4855, 4870, 4885, 4900, 4915, 4930, 4945, 4960, 4975, 4990, 5005, 5020, 5035, 5050, 5065, 5080, 5095, 5110, 5125, 5140, 5155, 5170, 5185, 5200, 5215, 5230, 5245, 5260, 5275, 5290, 5305, 5320, 5335, 5350, 5365, 5380, 5395, 5410, 5425, 5440, 5455, 5470, 5485, 5500, 5515, 5530, 5545, 5560, 5575, 5590, 5605, 5620, 5635, 5650, 5665, 5680, 5695, 5710, 5725, 5740, 5755, 5770, 5785, 5800, 5815, 5830, 5845, 5860, 5875, 5890, 5905, 5920, 5935, 5950, 5965, 5980, 5995, 6010, 6025, 6040, 6055, 6070, 6085, 6100, 6115, 6130, 6145, 6160, 6175, 6190, 6205, 6220, 6235, 6250, 6265, 6280, 6295, 6310, 6325, 6340, 6355, 6370, 6385, 6400, 6415, 6430, 6445, 6460, 6475, 6490, 6505, 6520, 6535, 6550, 6565, 6580, 6595, 6610, 6625, 6640, 6655, 6670, 6685, 6700, 6715, 6730, 6745, 6760, 6775, 6790, 6805, 6820, 6835, 6850, 6865, 6880, 6895, 6910, 6925, 6940, 6955, 6970, 6985, 7000, 7015, 7030, 7045, 7060, 7075, 7090, 7105, 7120, 7135, 7150, 7165, 7180, 7195, 7210, 7225, 7240, 7255, 7270, 7285, 7300, 7315, 7330, 7345, 7360, 7375, 7390, 7405, 7420, 7435, 7450, 7465, 7480, 7495, 7510, 7525, 7540, 7555, 7570, 7585, 7600, 7615, 7630, 7645, 7660, 7675, 7690, 7705, 7720, 7735, 7750, 7765, 7780, 7795, 7810, 7825, 7840, 7855, 7870, 7885, 7900, 7915, 7930, 7945, 7960, 7975, 7990, 8005, 8020, 8035, 8050, 8065, 8080, 8095, 8110, 8125, 8140, 8155, 8170, 8185, 8200, 8215, 8230, 8245, 8260, 8275, 8290, 8305, 8320, 8335, 8350, 8365, 8380, 8395, 8410, 8425, 8440, 8455, 8470, 8485, 8500, 8515, 8530, 8545, 8560, 8575, 8590, 8605, 8620, 8635, 8650, 8665, 8680, 8695, 8710, 8725, 8740, 8755, 8770, 8785, 8800, 8815, 8830, 8845, 8860, 8875, 8890, 8905, 8920, 8935, 8950, 8965, 8980, 8995, 9010, 9025, 9040, 9055, 9070, 9085, 9100, 9115, 9130, 9145, 9160, 9175, 9190, 9205, 9220, 9235, 9250, 9265, 9280, 9295, 9310, 9325, 9340, 9355, 9370, 9385, 9400, 9415, 9430, 9445, 9460, 9475, 9490, 9505, 9520, 9535, 9550, 9565, 9580, 9595, 9610, 9625, 9640, 9655, 9670, 9685, 9700, 9715, 9730, 9745, 9760, 9775, 9790, 9805, 9820, 9835, 9850, 9865, 9880, 9895, 9910, 9925, 9940, 9955, 9970, 9985, 10000, 10015, 10030, 10045, 10060, 10075, 10090, 10105, 10120, 10135, 10150, 10165, 10180, 10195, 10210, 10225, 10240, 102

[illegible]

Submitted: March 5, 2002, 15:48:11
 Accepted: March 23, 2002

Country	Match	42-76	Score	683	TM	Length
Host	Local	Simul	17	42-006	19-6-43	
Matches	176	Conservative	74	Mismatches	24	Indels 65; Gaps 18
1	5	VITRININ	1	1	1	1
2	2	VITRININ	1	1	1	1
3	6	VITRININ	1	1	1	1
4	7	VITRININ	1	1	1	1
5	8	VITRININ	1	1	1	1
6	9	VITRININ	1	1	1	1
7	10	VITRININ	1	1	1	1
8	11	VITRININ	1	1	1	1
9	12	VITRININ	1	1	1	1
10	13	VITRININ	1	1	1	1
11	14	VITRININ	1	1	1	1
12	15	VITRININ	1	1	1	1
13	16	VITRININ	1	1	1	1
14	17	VITRININ	1	1	1	1
15	18	VITRININ	1	1	1	1
16	19	VITRININ	1	1	1	1
17	20	VITRININ	1	1	1	1
18	21	VITRININ	1	1	1	1
19	22	VITRININ	1	1	1	1
20	23	VITRININ	1	1	1	1
21	24	VITRININ	1	1	1	1
22	25	VITRININ	1	1	1	1
23	26	VITRININ	1	1	1	1
24	27	VITRININ	1	1	1	1
25	28	VITRININ	1	1	1	1
26	29	VITRININ	1	1	1	1
27	30	VITRININ	1	1	1	1
28	31	VITRININ	1	1	1	1
29	32	VITRININ	1	1	1	1
30	33	VITRININ	1	1	1	1
31	34	VITRININ	1	1	1	1
32	35	VITRININ	1	1	1	1
33	36	VITRININ	1	1	1	1
34	37	VITRININ	1	1	1	1
35	38	VITRININ	1	1	1	1
36	39	VITRININ	1	1	1	1
37	40	VITRININ	1	1	1	1
38	41	VITRININ	1	1	1	1
39	42	VITRININ	1	1	1	1
40	43	VITRININ	1	1	1	1
41	44	VITRININ	1	1	1	1
42	45	VITRININ	1	1	1	1
43	46	VITRININ	1	1	1	1
44	47	VITRININ	1	1	1	1
45	48	VITRININ	1	1	1	1
46	49	VITRININ	1	1	1	1
47	50	VITRININ	1	1	1	1
48	51	VITRININ	1	1	1	1
49	52	VITRININ	1	1	1	1
50	53	VITRININ	1	1	1	1
51	54	VITRININ	1	1	1	1
52	55	VITRININ	1	1	1	1
53	56	VITRININ	1	1	1	1
54	57	VITRININ	1	1	1	1
55	58	VITRININ	1	1	1	1
56	59	VITRININ	1	1	1	1
57	60	VITRININ	1	1	1	1
58	61	VITRININ	1	1	1	1
59	62	VITRININ	1	1	1	1
60	63	VITRININ	1	1	1	1
61	64	VITRININ	1	1	1	1
62	65	VITRININ	1	1	1	1
63	66	VITRININ	1	1	1	1
64	67	VITRININ	1	1	1	



TEST	DOMAIN	559	744	16 X 11 MM TINDER REPEATS, GYLOID/DMAIN, 9- LINKED (CALIBR. . .) (BROWN TYPE).
1	REPEAT	559	569	1.
1	REPEAT	570	580	2.
1	REPEAT	581	591	3.
21	REPEAT	592	602	4.
21	REPEAT	603	613	5.
21	REPEAT	614	624	6.
21	REPEAT	625	635	7.
21	REPEAT	636	646	8.
21	REPEAT	647	657	9.
21	REPEAT	658	668	10.
21	REPEAT	669	679	11.
21	REPEAT	680	690	
21	REPEAT	691	701	
21	REPEAT	702	712	
21	REPEAT	713	723	
21	REPEAT	724	734	
21	REPEAT	735	745	
21	REPEAT	746	756	
21	REPEAT	757	767	
21	REPEAT	768	778	
21	REPEAT	779	789	
21	REPEAT	790	800	
21	REPEAT	801	811	
21	REPEAT	812	822	
21	REPEAT	823	833	
21	REPEAT	834	844	
21	REPEAT	845	855	
21	REPEAT	856	866	
21	REPEAT	867	877	
21	REPEAT	878	888	
21	REPEAT	889	899	
21	REPEAT	900	910	
21	REPEAT	911	921	
21	REPEAT	922	932	
21	REPEAT	933	943	
21	REPEAT	944	954	
21	REPEAT	955	965	
21	REPEAT	966	976	
21	REPEAT	977	987	
21	REPEAT	988	998	
21	REPEAT	999	1000	

[illegible]

1	EMBL: S67021; AAC47476.1	1	ACETYLCHOLINESTERASE	
2	EMBL: A23143; CAAT4727.1	2	BY SIMILARITY	
3	EMBL: X70141; CAA49746.1	3	BY SIMILARITY	
4	PIR: JH0811; JH0811	4	ACETYLCHOLINESTERASE	
5	EMBL: F21816; JMAH	5	BY SIMILARITY	
6	EMBL: F06020; CAA02012	6	CARBOXYLSTERASE_B	
7	EMBL: F06027; CAA02017	7	CHOLINESTERASE	
8	EMBL: F06037; CAA03741	8	EST-1F; Chitost_acestro	
9	EMBL: F01155; C01015	9	1	
10	EMBL: F06021; CAA02011	10	CHOLINESTERASE	
11	EMBL: F06022; CAA02012	11	CARBOXYLSTERASE_B; 1	
12	EMBL: F06037; CAA03741	12	EST-1F; Chitost_acestro	
13	EMBL: F01155; C01015	13	1	
14	EMBL: F06021; CAA02011	14	CHOLINESTERASE	
15	EMBL: F06022; CAA02012	15	CARBOXYLSTERASE_B; 1	
16	EMBL: F06037; CAA03741	16	EST-1F; Chitost_acestro	
17	EMBL: F01155; C01015	17	1	
18	EMBL: F06021; CAA02011	18	CHOLINESTERASE	
19	EMBL: F06022; CAA02012	19	CARBOXYLSTERASE_B; 1	
20	EMBL: F06037; CAA03741	20	EST-1F; Chitost_acestro	
21	EMBL: F01155; C01015	21	1	
22	EMBL: F06021; CAA02011	22	CHOLINESTERASE	
23	EMBL: F06022; CAA02012	23	CARBOXYLSTERASE_B; 1	
24	EMBL: F06037; CAA03741	24	EST-1F; Chitost_acestro	
25	EMBL: F01155; C01015	25	1	
26	EMBL: F06021; CAA02011	26	CHOLINESTERASE	
27	EMBL: F06022; CAA02012	27	CARBOXYLSTERASE_B; 1	
28	EMBL: F06037; CAA03741	28	EST-1F; Chitost_acestro	
29	EMBL: F01155; C01015	29	1	
30	EMBL: F06021; CAA02011	30	CHOLINESTERASE	
31	EMBL: F06022; CAA02012	31	CARBOXYLSTERASE_B; 1	
32	EMBL: F06037; CAA03741	32	EST-1F; Chitost_acestro	
33	EMBL: F01155; C01015	33	1	
34	EMBL: F06021; CAA02011	34	CHOLINESTERASE	
35	EMBL: F06022; CAA02012	35	CARBOXYLSTERASE_B; 1	
36	EMBL: F06037; CAA03741	36	EST-1F; Chitost_acestro	
37	EMBL: F01155; C01015	37	1	
38	EMBL: F06021; CAA02011	38	CHOLINESTERASE	
39	EMBL: F06022; CAA02012	39	CARBOXYLSTERASE_B; 1	
40	EMBL: F06037; CAA03741	40	EST-1F; Chitost_acestro	
41	EMBL: F01155; C01015	41	1	
42	EMBL: F06021; CAA02011	42	CHOLINESTERASE	
43	EMBL: F06022; CAA02012	43	CARBOXYLSTERASE_B; 1	
44	EMBL: F06037; CAA03741	44	EST-1F; Chitost_acestro	
45	EMBL: F01155; C01015	45	1	
46	EMBL: F06021; CAA02011	46	CHOLINESTERASE	
47	EMBL: F06022; CAA02012	47	CARBOXYLSTERASE_B; 1	
48	EMBL: F06037; CAA03741	48	EST-1F; Chitost_acestro	
49	EMBL: F01155; C01015	49	1	
50	EMBL: F06021; CAA02011	50	CHOLINESTERASE	
51	EMBL: F06022; CAA02012	51	CARBOXYLSTERASE_B; 1	
52	EMBL: F06037; CAA03741	52	EST-1F; Chitost_acestro	
53	EMBL: F01155; C01015	53	1	
54	EMBL: F06021; CAA02011	54	CHOLINESTERASE	
55	EMBL: F06022; CAA02012	55	CARBOXYLSTERASE_B; 1	
56	EMBL: F06037; CAA03741	56	EST-1F; Chitost_acestro	
57	EMBL: F01155; C01015	57	1	
58	EMBL: F06021; CAA02011	58	CHOLINESTERASE	
59	EMBL: F06022; CAA02012	59	CARBOXYLSTERASE_B; 1	
60	EMBL: F06037; CAA03741	60	EST-1F; Chitost_acestro	
61	EMBL: F01155; C01015	61	1	
62	EMBL: F06021; CAA02011	62	CHOLINESTERASE	
63	EMBL: F06022; CAA02012	63	CARBOXYLSTERASE_B; 1	
64	EMBL: F06037; CAA03741	64	EST-1F; Chitost_acestro	
65	EMBL: F01155; C01015	65	1	
66	EMBL: F06021; CAA02011	66	CHOLINESTERASE	
67	EMBL: F06022; CAA02012	67	CARBOXYLSTERASE_B; 1	
68	EMBL: F06037; CAA03741	68	EST-1F; Chitost_acestro	
69	EMBL: F01155; C01015	69	1	
70	EMBL: F06021; CAA02011	70	CHOLINESTERASE	
71	EMBL: F06022; CAA02012	71	CARBOXYLSTERASE_B; 1	
72	EMBL: F06037; CAA03741			

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PROT. A4061815; AAC54270.1; -

17 activity, assembly, and secretion of recombinant human
 18 17- β -glucuronidase. Expression of α -glucuronidase (500 ng/ml)
 19 mutant".
 20 J. Biol. Chem. 267:4977-4984(1992).
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1 "Genetic characterization of human cholinesterase." 2
3 L. H. Nair, Acad. Sci. U.S.A. 41:662-666(1967). 4
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000001 Patch 24.48: Score 710.57, 46.11, Length 501;
 Post Local Similarity 51.88; Proc. No. 270-457
 Matrices 187; Conserved 90; Missed ones 226; Indels 85; Gaps 212

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$$A^{\pm} = \frac{1}{2} \{ \mathbf{q}^{\pm}(\mathbf{p}, \mathbf{x}) \},$$

$$\mathbf{q}^{\pm}(\mathbf{p}, \mathbf{x}) = A \mathbf{q}^{\pm}(\mathbf{p}, \mathbf{x}) + \mathbf{q}^{\pm}(\mathbf{p}, \mathbf{x}), \quad (\mathbf{p} \in \mathbf{R}^3, \mathbf{x} \in \mathbf{R}^3, \mathbf{p} \neq \mathbf{0}).$$
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77  ---EPTVTVNINWVQWQK VQVQLVNIWVQAFELNDSQDAFLNRYLYDSEIAT 132
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79  NPAVSEPTVYINWVETLEK FQNLVWVWVQSDPSYSSSS  SHVYISQVYAV 162
80  131 NGVTVVITPVTVVTHLHLS LQANITGVNITGVQHMATAVKRNIAAPQGD NNIIIF 191
81  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
82  164 TERVYVYVTHRRTVETVETLNTGVAT DVYVLTETELAVY ENIHTEGRTPEVET 222
83  192 QPSADASVSGVQI SPVNSHLEPAIGDSVALIW YIQNSHGWAKVAILNDGVG 249
84  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
85  224 IESADASVGNHVI SEISSELEPAIGDSVALIWVAVVETVAPPEIKKQSVVQVSG 282
86  250 EAAVMAVTEVTEFEAL TAVVPLALDEPRLVAVTVVTSDEFTACPIINLVANA 308
87  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
88  284 NDTLEHPLKPKKQDELIGEMOV ---LFWSSIPEPSVAVDVPEPPIIP-DAMISSG 337
89  309 QIDVYV LAGINNE DEEACVIMAGVETREE VVAGGVVAVEL LKQSDCAILF 364
90  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
91  336 NTRVTLGVVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQV 397
92  366 DVYVTVVAVSEVQVNRKRVVCHLVNDVAVVH LAAVQVKA NAKSA----- 411
93  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
94  406 DQVTDV WQVLRHQAQVSIAMVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQV 456
95  412 ----- KTYAVLEHPSPEVYPERVGNHIAVETGVVCEKPFATPTVYRPG 456
96  457 QNSGSLTNNNSNSQDAVTVYTHHPSNIAAPVWQVYTHYHLEHVQGLKPKINVTAB 516
97  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
98  457 DEYVQVMAVWVNEAVTQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQV 512
99  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
100  477 EEFVLECIINWVAVVATIN NVNTEVTEVESEKSNV LQVQVLEKVVQVTEEM KVLH 573
101  514 SLRINPLKRNILLYALPVIID 534
102  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
103  574 GDRQHPALMNPPLRLNIIID 595

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Search completed: March 5, 2002, 15:49:30
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Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in YEA medium for 24 h at 28°C. The cell concentration of the strains was adjusted to 10⁸ cells/ml. The cell suspension was then diluted with distilled water to the concentration of 10⁶ cells/ml. The cell suspension was then mixed with the plant tissue and the transformation efficiency was determined. The results are shown in Table 1.

Parameter	Value
β_1	0.000
β_2	0.000
β_3	0.000
β_4	0.000
β_5	0.000
β_6	0.000
β_7	0.000
β_8	0.000
β_9	0.000
β_{10}	0.000
β_{11}	0.000
β_{12}	0.000
β_{13}	0.000
β_{14}	0.000
β_{15}	0.000
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β_{98}	0.000
β_{99}	0.000
β_{100}	0.000

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Figure 1: Schematic representation of the experimental design. The diagram shows a flow from 'Study 1' to 'Study 2'. Study 1 involves 'Pretest' and 'Main Study'. Study 2 involves 'Pretest' and 'Main Study'. The 'Main Study' in Study 2 is further divided into 'Pretest' and 'Main Study'.

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ANILAVILILLOO CHIVANKKUNILU, PAVITHRAN, SKEEMAMMAVAR, 600

[illegible][illegible][illegible]
$$\begin{aligned} \mathbb{E}[\mathbf{y}^T \mathbf{y}] &= \mathbf{y}^T \mathbf{y} = \sum_{i=1}^n y_i^2 = \sum_{i=1}^n \left(\sum_{j=1}^n \mathbf{A}_{ij} x_j \right)^2 \\ &= \sum_{i=1}^n \sum_{j=1}^n \sum_{k=1}^n \mathbf{A}_{ij}^2 x_j^2 = \sum_{j=1}^n \left(\sum_{i=1}^n \mathbf{A}_{ij}^2 \right) x_j^2 = \sum_{j=1}^n \mathbf{d}_j x_j^2 \end{aligned}$$
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 2. *Scirpus americanus* (L.) Pers.
 3. *Scirpus setaceus* (L.) Pers.
 4. *Scirpus robustus* (L.) Pers.
 5. *Scirpus polyphyllus* (L.) Pers.
 6. *Scirpus subterminalis* (L.) Pers.
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[illegible][illegible][illegible][illegible]

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 17. *Chlorophyll q* (Chl *q*)
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 24. *Chlorophyll x* (Chl *x*)
 25. *Chlorophyll y* (Chl *y*)
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 28. *Chlorophyll ab* (Chl *ab*)
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1980	W. H. Rind	J. Geophys. Res.	85	1091
1981	W. H. Rind	J. Geophys. Res.	86	1091
1982	W. H. Rind	J. Geophys. Res.	87	1091
1983	W. H. Rind	J. Geophys. Res.	88	1091
1984	W. H. Rind	J. Geophys. Res.	89	1091
1985	W. H. Rind	J. Geophys. Res.	90	1091
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EP	67-JUN-1995.	95US-047760.
XX		
XX	CPBA : 950305, 951120, and 951120.	
XX		
XX	Tang JON, Wang GJ	
XX		
XX	WPI: 1996-277714-79	
XX		
XX	Reducing intestinal absorption of cholesterol by administering a C-terminal protein comprising the carboxy region of human bile salt lipase or derivative.	
XX	claim 1: Page 79-81: 99pp: English.	
XX		
XX	The human bile salt activated lipase (hAL) cat. no. 1 (AA19836) includes a carboxy-terminal tail contg. 16 copies of a proline-rich consensus repeat sequence (AA198328). The C-tail can compete with BAI. for binding to receptors on the intestinal surface with inhibition uptake of cholesterol. It can be used to treat hyperlipidemia and hypercholesterolemia and associated disease states and as a lipid delivery agent. The C-tail can be used by protease digestion of natural hAL expressed in e.g. yeast host cells (see also AA194787), or secreted in the milk of transgenic animals.	
XX	Sequence: 722 AA:	

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 103
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1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Discussion**
 6. **Conclusion**
 7. **References**
 8. **Appendix**
 9. **Index**
 10. **Table of Contents**
 11. **Figure 1**
 12. **Figure 2**
 13. **Figure 3**
 14. **Figure 4**
 15. **Figure 5**
 16. **Figure 6**
 17. **Figure 7**
 18. **Figure 8**
 19. **Figure 9**
 20. **Figure 10**
 21. **Figure 11**
 22. **Figure 12**
 23. **Figure 13**
 24. **Figure 14**
 25. **Figure 15**
 26. **Figure 16**
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 32. **Figure 22**
 33. **Figure 23**
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At the end of the day, the following is the result:

$$|M_{\alpha}| \leq |A_{\alpha}| + |V_{\alpha}|; \quad |M_{\beta}| \leq |A_{\beta}| + |V_{\beta}|$$

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Abstract

Figure 1 is a schematic representation of the experimental design. It shows a sequence of events: 'Pretest' (with 'Pretest' and 'Posttest' labels), 'Training' (with 'Training' and 'Posttest' labels), and 'Transfer' (with 'Transfer' and 'Posttest' labels). The 'Pretest' and 'Training' phases are connected by a horizontal line, and the 'Transfer' phase is connected by a horizontal line. The 'Posttest' labels are placed at the end of each phase.

[illegible][illegible]

1. *Chlorophyll a* (Chl *a*)
 2. *Chlorophyll b* (Chl *b*)
 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
 7. *Chlorophyll g* (Chl *g*)
 8. *Chlorophyll h* (Chl *h*)
 9. *Chlorophyll i* (Chl *i*)
 10. *Chlorophyll j* (Chl *j*)
 11. *Chlorophyll k* (Chl *k*)
 12. *Chlorophyll l* (Chl *l*)
 13. *Chlorophyll m* (Chl *m*)
 14. *Chlorophyll n* (Chl *n*)
 15. *Chlorophyll o* (Chl *o*)
 16. *Chlorophyll p* (Chl *p*)
 17. *Chlorophyll q* (Chl *q*)
 18. *Chlorophyll r* (Chl *r*)
 19. *Chlorophyll s* (Chl *s*)
 20. *Chlorophyll t* (Chl *t*)
 21. *Chlorophyll u* (Chl *u*)
 22. *Chlorophyll v* (Chl *v*)
 23. *Chlorophyll w* (Chl *w*)
 24. *Chlorophyll x* (Chl *x*)
 25. *Chlorophyll y* (Chl *y*)
 26. *Chlorophyll z* (Chl *z*)
 27. *Chlorophyll aa* (Chl *aa*)
 28. *Chlorophyll ab* (Chl *ab*)
 29. *Chlorophyll ac* (Chl *ac*)
 30. *Chlorophyll ad* (Chl *ad*)
 31. *Chlorophyll ae* (Chl *ae*)
 32. *Chlorophyll af* (Chl *af*)
 33. *Chlorophyll ag* (Chl *ag*)
 34. *Chlorophyll ah* (Chl *ah*)
 35. *Chlorophyll ai* (Chl *ai*)
 36. *Chlorophyll aj* (Chl *aj*)
 37. *Chlorophyll ak* (Chl *ak*)
 38. *Chlorophyll al* (Chl *al*)
 39. *Chlorophyll am* (Chl *am*)
 40. *Chlorophyll an* (Chl *an*)
 41. *Chlorophyll ao* (Chl *ao*)
 42. *Chlorophyll ap* (Chl *ap*)
 43. *Chlorophyll aq* (Chl *aq*)
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 53. *Chlorophyll aza* (Chl *aza*)
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 55. *Chlorophyll acz* (Chl *acz*)
 56. *Chlorophyll adz* (Chl *adz*)
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 66. *Chlorophyll anz* (Chl *anz*)
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 69. *Chlorophyll aqz* (Chl *aqz*)
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 71. *Chlorophyll asz* (Chl *asz*)
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Affiliations:

The diagram illustrates the experimental setup. A participant is seated at a table, looking at a video screen. A horizontal bar is positioned between the participant and the screen. A camera is located above the screen to capture the bar's position. The screen shows a target area. The participant's task is to move the bar to align with the target area on the screen.

Figure 1 is a schematic representation of the experimental design. It shows a flow from 'Study 1' to 'Study 2'. Study 1 involves 'Participants' and 'Stimuli' leading to 'Results'. Study 2 involves 'Participants' and 'Stimuli' leading to 'Results'.

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Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (n = 10) and the experimental group (n = 10). The control group received a standard diet (SD) and the experimental group received a high-fat diet (HFD). The subjects were divided into two groups: the control group (n = 10) and the experimental group (n = 10). The control group received a standard diet (SD) and the experimental group received a high-fat diet (HFD). The subjects were divided into two groups: the control group (n = 10) and the experimental group (n = 10). The control group received a standard diet (SD) and the experimental group received a high-fat diet (HFD).

$$A_{\text{N}_2} = 1.0 \times 10^{-10} \text{ mol cm}^{-2} \text{ s}^{-1} \text{ N}_2$$
[illegible][illegible]

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 5. SUBJECT
 6. ACTION
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 8. COMMENTS
 9. APPROVAL
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 11. DATE
 12. TIME
 13. LOCATION
 14. WEATHER
 15. MOON
 16. STARS
 17. PLANETS
 18. METEORS
 19. COMETS
 20. AURORA
 21. SOLAR FLARES
 22. COSMIC RAYS
 23. GRAVITATIONAL WAVES
 24. DARK MATTER
 25. DARK ENERGY
 26. QUANTUM ENTANGLEMENT
 27. SUPERNOVAE
 28. BLACK HOLES
 29. GALAXIES
 30. CLUSTERS
 31. SUPERCLUSTERS
 32. FILAMENTS
 33. Voids
 34. Cosmic Microwave Background
 35. Primordial Fluctuations
 36. Inflation
 37. Big Bang
 38. Universe
 39. Cosmos
 40. Everything

[illegible]


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CY 2249 AGCTTCACATGCTTCGATCACTTAATGTTTAAAGTTCCTATGAGACCTTTGTAATGAAAGACGCTC 2348
1b 2347 agtccatattgcctgcgaatcattgagctttagagctccctaaagacttgatctccaaagagc 2936
CY 2158 ACAAAGAGGAGATGCTGAGAGGATGCTGCTTCGATGATGAGCTCTTCCTGAAATGAAGCTCA 2408
1b 2347 aaaaagatggaaccccaagagagctccccccacattcgaagctcttcctgataaagcctca 2936
CY 2419 TACCCCTAAAAAAGAAAAA 2428
1b 2947 taccctc1aadaaaaaaaa 3016

RESULT 5
13-08-347-7188-3
Sequence 3, Application US/083477188
Patent No. 5696087
GENERAL INFORMATION:
APPLICANT: Wang, Qiu-San
APPLICANT: Tang, Jordan J.N
TITLE OF INVENTION: METHOD FOR REDUCING INTESTINAL ABSORPTION OF
TITLE OF INVENTION: CHOLESTEROL
NUMBER OF SEQUENCES: 6
OVERREFERENCE ADDRESS:
ADDRESS: Patricia L. Pabst
STREET: 2800 One Atlantic Center
CITY: 1201 West Peachtree Street
STATE: Atlanta
COUNTRY: USA
ZIP: 30309-3450
SEQUENCE REMARKS: FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Falctulin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/083477188
FILING DATE: December 1, 1994
CLASSIFICATION: 424
AI GENEY/ACENT INFORMATION:
NAME: Pabst, Patricia L.
REGISTRATION NUMBER: 31,284
PUBLICATION DATE NUMBER: 089779
TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8795
COMMUNICATIONS ADDRESS: 3
SEQUENCE CHARACTERISTICS:
LENGTH: 3018 base pairs
TYPE: nucleic acid
STRANDS: single
TOPOLOGY: linear
BASE STYLE TYPE: CNA
IS CHEMICAL: NO
IS TESTED: NO
FEATURE:
NAME/KEY: misc. feature
LOCATION: 1..742
FIELD NUMBER: 3.
OTHER INFORMATION: "The positions 673 through 2904
contain information. Salt activated lipase."
13-08-347-7188-3

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[illegible][illegible]

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RESENT: Dr. Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue

Factorial Pancreas Consortium

Harvard University, Howard Hughes Medical Institute

Dept. of Molecular and Cellular Biology, 7 Divinity Ave., Cambridge,

MA 02138

tel: 617-495-1612

fax: 617-495-6000

email: doug@harp.harvard.edu

Library was constructed by Dr. Douglas Melton, DNA sequencing by

Washington University Genome Sequencing Center for information on

obtaining a clone please contact: Juliana Brown

(brown@harp.harvard.edu)

Send primer: 4000 bp from 5' end

Birth quality sequence stop: 449

Insert: 1.7 kb/2.1 kb/1.7 kb

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OPERATING SYSTEM: PC DOS/MS-DOS
SOFTWARE: FidoNet Release #1.0, Version #1.25
CURRENT AFFILIATION DATA:
AFFILIATION NUMBER: 052/02704.091
FILING DATE:
CLASSIFICATION: 445
PRIOR AFFILIATION DATA:
AFFILIATION NUMBER: SE 000660-4
FILING DATE: 01 MAR 1994
PRIOR AFFILIATION DATA:
AFFILIATION NUMBER: SE 000722-7
FILING DATE: 04-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Storrer Ph.D., Richard J.
REGISTRATION NUMBER: 35,482
REFERENCE/KEY NUMBER: 1104426-050
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)819-0744
TELEFAX: (212)544-0113
INFORMATION FOR SEC TO NO: 3
SEQUENCE CHARACTERISTICS:
LENGTH: 722 amino acids
TYPE: mbp2 acid
FOLDTYPE: linear
METHODS TYPE: Protein
HYDROPHILIC: No
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
TISSUE TYPE: Mammary gland

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SEQUENCE 1: Application US/86068945A
Patent No. 5616481

GENERAL INFORMATION:

APPLICANT: Bjursell, Gunnar
APPLICANT: Carlsson, Peter
APPLICANT: Ehnback, Sven
APPLICANT: Hansson, Leonard
APPLICANT: Lidberg, Olle
APPLICANT: Nilsson, Jeanette
APPLICANT: Tornell, Jan
TITLE OF INVENTION: New DNA Sequences
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: White & Case
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: United States
GPO: 10046-2787

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
GENERATING SYSTEM: PC/DS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/068,945A
CLASSIFICATION: 435
FILING DATE: 27-MAY-1993
PFIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9201809-2
FILING DATE: 11-JUN-1992

PFOR APPLICATION DATA:
APPLICATION NUMBER: SE 9201826-6
FILING DATE: 12-JUN-1992
PFOR APPLICATION DATA:
APPLICATION NUMBER: SE 9202088-2
FILING DATE: 03-JUL-1992

PFOR APPLICATION DATA:
APPLICATION NUMBER: SF 9400902-5
FILING DATE: 19-MAR-1993
AT CORNEY/AGENT INFORMATION:
NAME: Storch, Richard J.
REGISTRATION NUMBER: 35, 372
REFERENCE/DOCKET NUMBER: 1103426 952

TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)819-8783
FLEFAX: (212)354-8113
INFORMATION FOR SRO ID NO: 11

SEQUENCE CHARACTERISTICS:
LENGTH: 1574 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
POLARITY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
Tissue Type: Mammary gland
IF TURE:

NAME/KEY: CDS
LOCATION: join(1651..1727, 4071..4221, 4307..4449, 4707..4851)
LOCATION: 4904, 6193..6323, 6501..6608, 6751..6868, 8349
LOCATION: 8521, 8719..8922, 10124..10321, 10650..11391

OTHER INFORMATION: /EC-number-3.1.1.1
OTHER INFORMATION: /product-"Bile Salt-Stimulated Lipase"
FEATURE:
NAME/KEY: 5'UTR
LOCATION: 1..1640
FEATURE:

Tue Mar 5 16:08:11 2002

NAME: McConnell, John J.
REGISTRATION NUMBER: 26,449
REFERENCE/DOCKET NUMBER: 91,441
TELEPHONE: 312-715-1000
TELEFAX: 312-715-1234
INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:
LENGTH: 2487 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 104..2341
S-08-370-223-12

Alignment scores:
Quality: 20.00 Length: 20
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

Alignment block:
US-09-418-176-2_COPY_4_23 x US-08-370-223-12
Align seq 1/1 to: US-08-370-223-12 from: 1 to: 2487

1 MetGlyArdLeuGlnValValLeuGlyLeuThrCysCysTrrpAlaVal 17
|||||
113 ATGGAGGCTGCAACCTGGTGGTGGCTCAGCTGCTGGGCGAGT 162
17 AlaSerAla 20
|||||
163 GGCAGTGGC 172

seq_name: /cqn2_6/ptadata/1/ina/5A_COMB seq:us-08-347-718B-3

seq_documentation_block:
Sequence 3, Application US/0834718B
Patent No. 5676087
GENERAL INFORMATION:
APPLICANT: Wang, Chu-San
APPLICANT: Tang, Jordan J.N
TITLE OF INVENTION: METHOD FOR REDUCING INTESTINAL ABSORPTION OF
TITLE OF INVENTION: CHOLESTEROL
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08347,718B
FILING DATE: December 1, 1994
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: OMPF150
TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:
LENGTH: 3018 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: misc. feature
LOCATION: 1..742
OTHER INFORMATION: /Function = "Nucleotides 679 through 2604
encode the amino acid sequence for the Human Milk Lipase."
OTHER INFORMATION: Salt-activated Lipase.

US-08-347-718B-3

Alignment scores:
Quality: 20.00 Length: 20
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

Alignment block:
US-08-18-176-2_COPY_4_23 x US-08-347-718B-3
Align seq 1/1 to: US-08-347-718B-3 from: 1 to: 3018

MetGlyArdLeuGlnValValLeuGlyLeuThrCysCysTrrpAlaVal 17
|||||
673 ATGGAGGCTGCAACCTGGTGGTGGCTCAGCTGCTGGGCGAGT 728
1 AlaSerAla 20
|||||
723 GGCAGTGGC 738

seq_name: /cqn2_6/ptadata/1/ina/5A_COMB seq:us-08-482-262-3

seq_documentation_block:
Sequence 3, Application US/08482262
Patent No. 5821226
GENERAL INFORMATION:
APPLICANT: Wang, Chu-San
APPLICANT: Tang, Jordan J.N
TITLE OF INVENTION: BAL C TAIL DRUG DELIVERY MOLECULES
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08482,262
FILING DATE: June 7, 1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: OMPF151
TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:
LENGTH: 3018 base pairs
TYPE: nucleic acid

